

Figure 1

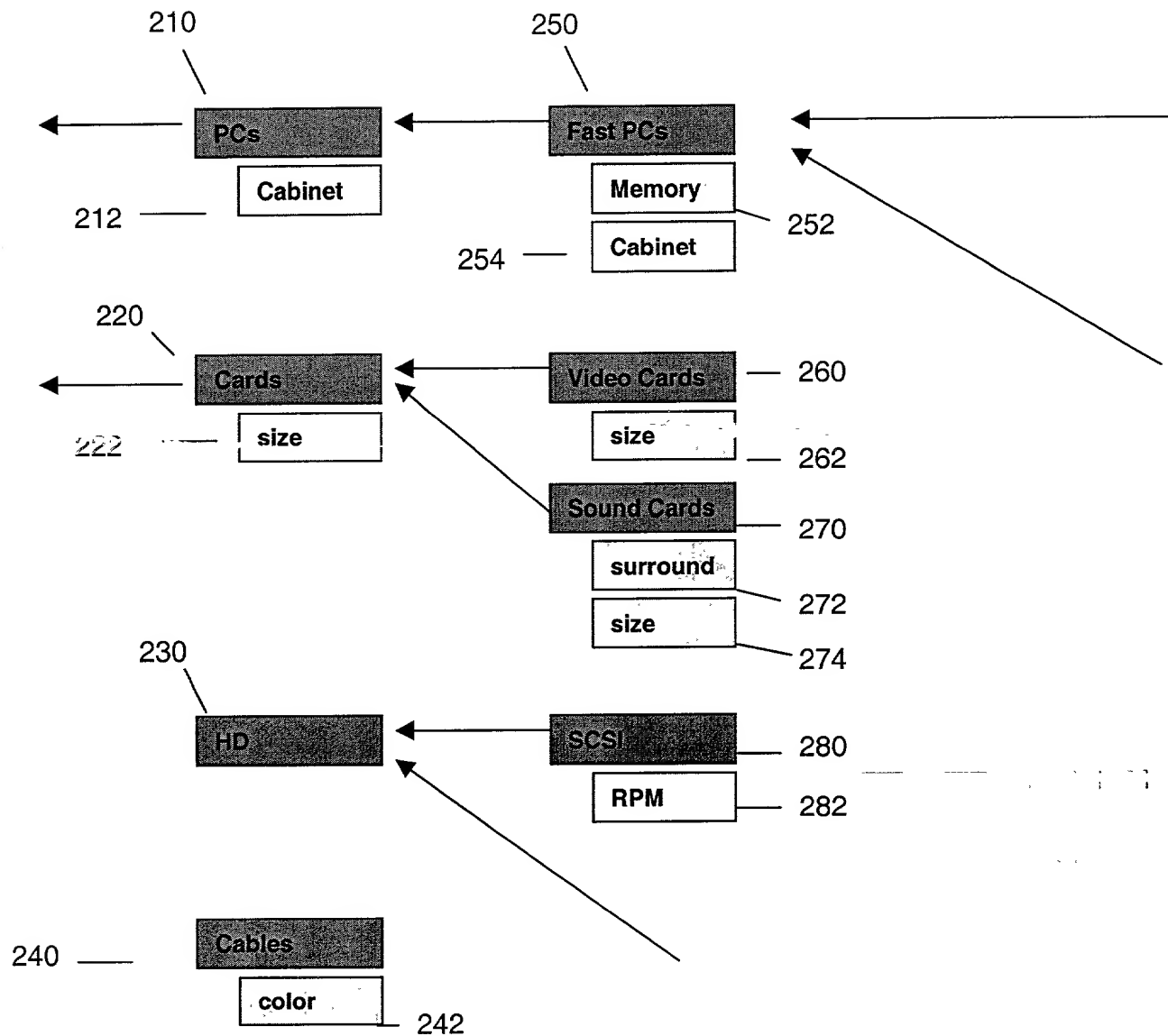


Figure 2

FIG. 3 is a block diagram of a system 300. The system 300 includes a user interface 305, a processor 310, a memory 315, a storage device 320, a network interface 325, and a display 330. The user interface 305 is connected to the processor 310, which is connected to the memory 315, the storage device 320, the network interface 325, and the display 330. The processor 310 is also connected to a video card 340, which is connected to the display 330. The storage device 320 is connected to a hard drive 325, which is connected to the processor 310. The network interface 325 is connected to a network 330, which is connected to the processor 310. The display 330 is connected to the processor 310. The system 300 is configured to receive user input from the user interface 305 and process the input to generate output on the display 330. The system 300 is also configured to store data in the memory 315 and the storage device 320, and to communicate with the network 330 via the network interface 325.

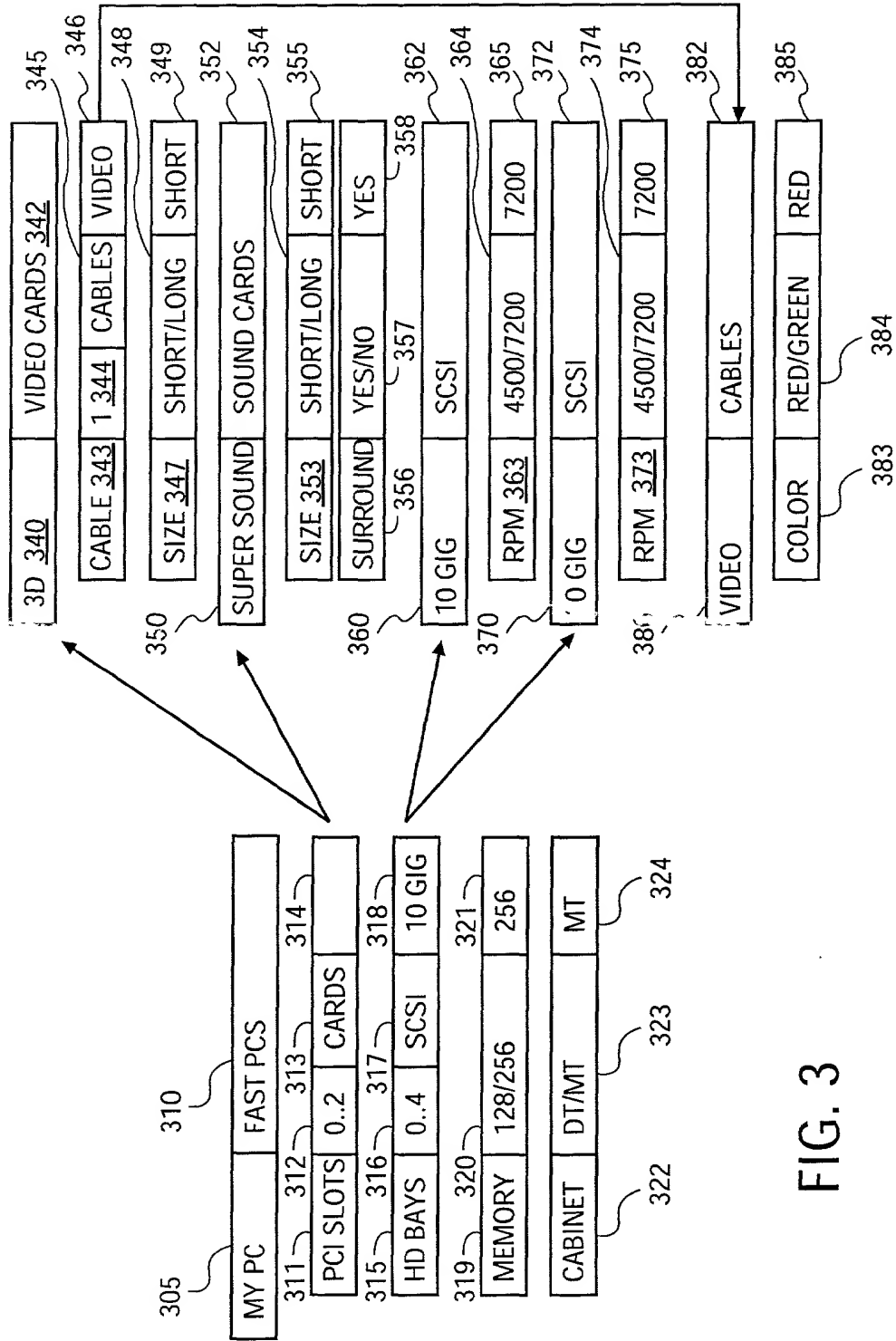


FIG. 3

| Minimum Cardinality | Default Cardinality | Maximum Cardinality | System Adds Default Product? | User Pick Req'd? | Initial Solution | User Actions Allowed |
|---------------------|---------------------|---------------------|------------------------------|------------------|---------------------|--|
| =0 | = Min Card | >Default Card | No | No | No items | Increase item quantities to Max Card |
| =0 | > Min Card | =Default Card | No | No | N=Max Card | Decrease Item quantities to 0 but cannot increase them. |
| =0 | > Min Card | >Default Card | No | No | N=Default Card | Increase item quantities to Max Card or decrease them to 0 |
| >0 | = Min Card | =Default Card | Yes | Yes | N=Min, Default, Max | Cannot increase or decrease item quantities. |
| >0 | = Min Card | > Default Card | Yes | Yes | N=Min | Can increase item quantities to Max Card but cannot decrease them. |
| >0 | > Min Card | = Default Card | Yes | Yes | N=Default | Can decrease item quantities to Min Card but cannot increase them. |
| >0 | > Min Card | >Default Card | Yes | Yes | N=Default | Can decrease item quantities to Min Card or increase them to Max Card. |

Figure 4

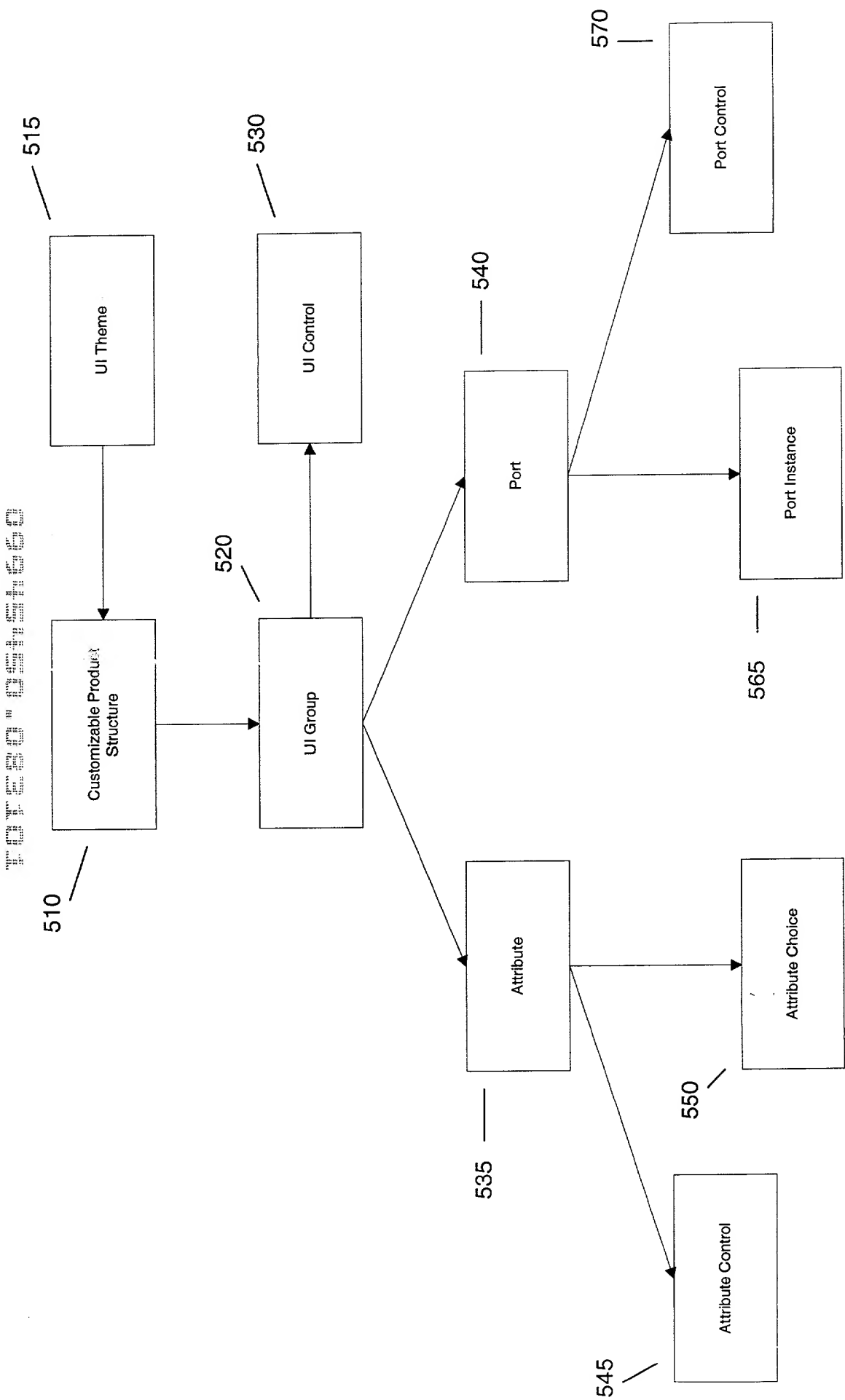


Figure 5

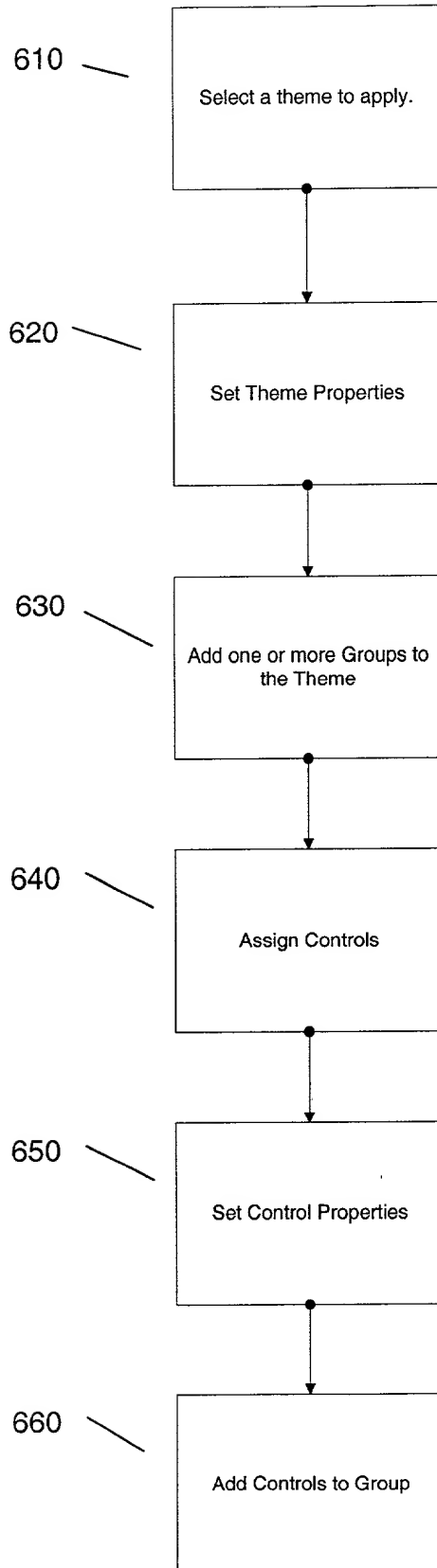


Figure 6

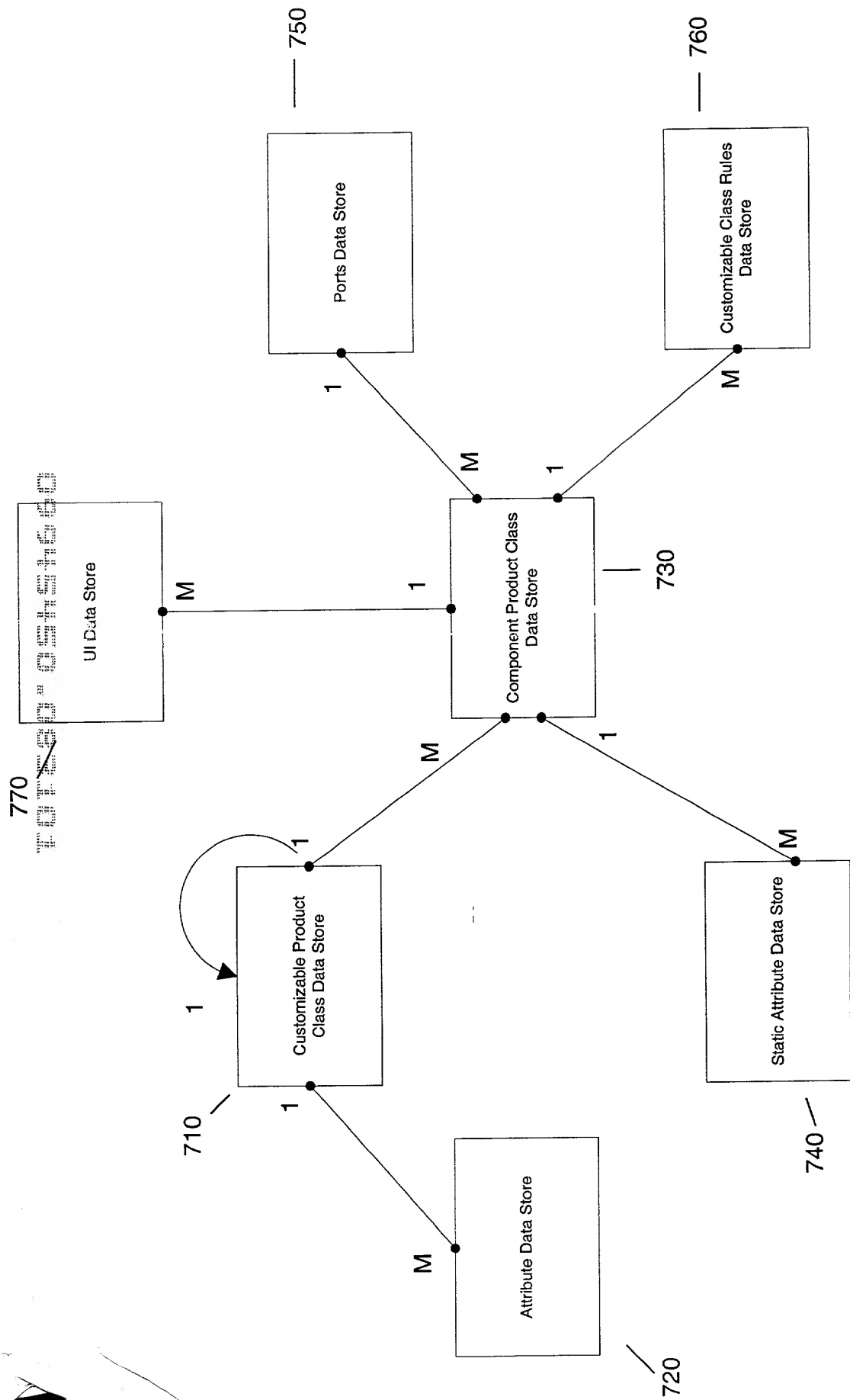


Figure 7

FIG. 8 is a block diagram of a system 800. The system 800 includes a customizable product addition logic 810, a customizable product assignment logic 820, a component product addition logic 830, a customizable rule addition logic 840, and a customizable UI mapping logic 850. The system 800 is configured to perform the following steps: (a) receiving a request to add a new product; (b) determining whether the request is for a component product; (c) if the request is for a component product, adding the component product to the system; (d) if the request is not for a component product, adding the new product to the system; (e) assigning the new product to a user; (f) adding a new rule to the system; and (g) mapping the new rule to a user interface element.

Customizable Product
Addition Logic
810

Customizable Product
Assignment Logic
820

Component Product
Addition Logic
830

Customizable Rule Addition
Logic
840

Customizable UI Mapping
Logic
850

800

Figure 8